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	10	20	30	40	50	
DSFBP314.AMI	1 MSNRPIYLDY	SATTPVDPSV	VEKMIPWLYE	SFGNPASRSH	AFGWEAEDAV	50
DSFBP536.AMI	1 MSNRPIYLDY	SATTPVDPSV	VEKMIPWLYE	SFGNPASRSH	AFGWEAEDAV	50
	60	70	80	90	100	
DSFBP314.AMI	51 EKAREEVAKL	VNADPREIVW	TSGATESDNL	AIKGAANFYA	ERKGHIITVK	100
DSFBP536.AMI	51 EKAREEVAKL	VNADPREIVW	TSGATESDNL	AIKGAANFYA	ERKGHIITVK	100
	110	120	130	140	150	
DSFBP314.AMI	101 TEHKAVIDTC	RELERQGFV	TYLDVQDDGL	LSLDAFKAAL	RPDTILVSVM	150
DSFBP536.AMI	101 TEHKAVIDTC	RELERQGFV	TYLDVQDDGL	LSLDAFKAAL	RPDTILVSVM	150
	160	170	180	190	200	
DSFBP314.AMI	151 MVNNEIGVIQ	DIAALGEICR	EKGIIIPHVA	AQATGKVEID	LQKLKVDLMS	200
DSFBP536.AMI	151 MVNNEIGVIQ	DIAALGEICR	EKGIIIPHVA	AQATGKVEID	LQKLKVDLMS	200
	210	220	230	240	250	
DSFBP314.AMI	201 FSAHKTYGPK	GIGALYVRRK	PRVRIEAQMH	GGGHERGFRS	GTLATHQIVG	250
DSFBP536.AMI	201 FSAHKTYGPK	GIGALYVRRK	PRVRIEAQMH	GGGHERGFRS	GTLATHQIVG	250
	260	270	280	290	300	
DSFBP314.AMI	251 MGEAFRLARE	EMGTENERVR	MLRDRLLAGL	TQIEEVYVNG	SMEHRVPHNL	300
DSFBP536.AMI	251 MGEAFRLARE	EMGTENERVR	MLRDRLLAGL	TQIEEVYVNG	SMEHRVPHNL	300
	310	320	330	340	350	
DSFBP314.AMI	301 NISFNVEGE	SLIMAIKELA	VSSGSACTSA	SLEPSYVLRA	LGRNDELAYS	350
DSFBP536.AMI	301 NISFNVEGE	SLIMAIKELA	VSSGSACTSA	SLEPSYVLRA	LGRNDELAYS	350
	360	370	380	390	400	
DSFBP314.AMI	351 SIRFTLGRFT	TEQEIDFTIE	LIKSRVGLR	DMSPLWEMAQ	EGIDLNSVQW	400
DSFBP536.AMI	351 SIRFTLGRFT	TEQEIDFTIE	LIKSRVGLR	DMSPLWEMAQ	EGIDLNSVQW	400
	410	420	430	440	450	
DSFBP314.AMI	401 AAH*					450
DSFBP536.AMI	401 AAH*					450
	10	20	30	40	50	
DSF314.DNA	1 ATGAGCAATC	GCCCCATCTA	CCTGGACTAC	TCGGCTACCA	CGCCGGTCGA	50
DSF536F1.DNA	1 ATGAGCAATC	GCCCCATCTA	CCTGGACTAC	TCGGCTACCA	CGCCGGTCGA	50
DSF536R1.DNA	1					50
DSF53611.DNA	1					50
DSF53612.DNA	1					50
	60	70	80	90	100	
DSF314.DNA	51 CCCGAGCGTG	GTCGAGAAAA	TGATTCCCTG	GTTGTACGAG	AGTTTCGGCA	100
DSF536F1.DNA	51 CCCGAGCGTG	GTCGAGAAAA	TGATTCCCTG	GTTGTACGAG	AGTTTCGGCA	100
DSF536R1.DNA	51					100
DSF53611.DNA	51					100
DSF53612.DNA	51					100
	110	120	130	140	150	
DSF314.DNA	101 ATCCGGCCTC	GCGCAGCCAC	GCCTTTGGCT	GGGAAGCCGA	GGACGCGGTC	150
DSF536F1.DNA	101 ATCCGGCCTC	GCGCAGCCAC	GCCTTTGGCT	GGGAAGCCGA	GGACGCGGTC	150
DSF536R1.DNA	101					150
DSF53611.DNA	101					150
DSF53612.DNA	101					150
	160	170	180	190	200	
DSF314.DNA	151 GAGAAGGCC	GCGAGGAAGT	TGCCAAGCTG	GTCAACGCCG	ATCCGCGCGA	200
DSF536F1.DNA	151 GAGAAGGCC	GCGAGGAAGT	TGCCAAGCTG	GTCAACGCCG	ATCCGCGCGA	200
DSF536R1.DNA	151					200
DSF53611.DNA	151					200
DSF53612.DNA	151					200
	210	220	230	240	250	
DSF314.DNA	201 GATCGTCTGG	ACTTCGGCGG	CTACCGAGTC	GGACAACCTG	GCCATCAAGG	250
DSF536F1.DNA	201 GATCGTCTGG	ACTTCGGCGG	CTACCGAGTC	GGACAACCTG	GCCATCAAGG	250
DSF536R1.DNA	201					250
DSF53611.DNA	201					250
DSF53612.DNA	201					250
	260	270	280	290	300	
DSF314.DNA	251 GCGCGGGCAA	TTTCTACGCC	GAGCGCGGCA	AGCACATCAT	TACCGTCAAG	300
DSF536F1.DNA	251 GCGCGGGCAA	TTTCTACGCC	GAGCGCGGCA	AGCACATCAT	TACCGTCAAG	300
DSF536R1.DNA	251					300
DSF53611.DNA	251					300

Figure 7A



U.S. Serial No. 09/825,769
Milan S. BLAKE et al.
METHOD FOR THE PRODUCTION OF
BACTERIAL TOXINS
37974-0054

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DSF53612.DNA	251	-----	-----	-----	-----	300	
		310	320	330	340	350	
DSF314.DNA	301	ACCGAACACA	AGGCGGTGCT	GGATACCTGT	CGGGAGCTCG	AACGCCAGGG	350
DSF536F1.DNA	301	ACCGAACACA	AGGCGGTGCT	GGATACCTGT	CGGGAGCTCG	AACGCCAGGG	350
DSF536R1.DNA	301	-----	-----	-----	-----	-----	350
DSF53611.DNA	301	-----	-----	-----	-----	-----	350
DSF53612.DNA	301	-----	-----	-----	-----	-----	350
		360	370	380	390	400	
DSF314.DNA	351	CTTTGAAGTG	ACCTACCTGG	ATGTCCAGGA	CGATGGTCTG	CTCAGCCTCG	400
DSF536F1.DNA	351	CTTTGAAGTG	ACCTACCTGG	ATGTCCAGGA	CGATGGTCTG	CTCAGCCTCG	400
DSF536R1.DNA	351	-----	-----	-----	-----	-----	400
DSF53611.DNA	351	-----	-----	-----	-----	-----	400
DSF53612.DNA	351	-----	-----	-----	-----	-----	400
		410	420	430	440	450	
DSF314.DNA	401	ATGCGTTCAA	GGCTGCGCTG	CGCCCGGATA	CCATCCTGGT	GTCGGTGATG	450
DSF536F1.DNA	401	ATGCGTTCAA	GGCTGCGCTG	CGCCCGGATA	CCATCCTGGT	GTCGGTGATG	450
DSF536R1.DNA	401	-----	-----	-----	-----	-----	450
DSF53611.DNA	401	-----	-----	-----	-----	-----	450
DSF53612.DNA	401	-----	-----	-----	-----	-----	450
		460	470	480	490	500	
DSF314.DNA	451	ATGGTCAACA	ACGAGATCGG	CGTCATCCAG	GACATCGCCG	CGCTGGGCGA	500
DSF536F1.DNA	451	ATGGTCAACA	ACGAGATCGG	CGTCATCCAG	GACATCGCCG	CGCTGGGCGA	500
DSF536R1.DNA	451	-----	-----	-----	-----	-----	500
DSF53611.DNA	451	-----	-----	-----	-----	-----	500
DSF53612.DNA	451	ATGGTCAACA	ACGAGATCGG	CGTCATCCAG	GACATCGCCG	CGCTGGGCGA	500
		510	520	530	540	550	
DSF314.DNA	501	GATCTGCCGC	GAGAAGGGCA	TCATCTTCCA	CGTGGACGCG	GCCCAGGCCA	550
DSF536F1.DNA	501	GATCTGCCGC	GAGAAGGGCA	-CATCTTCCA	CGTGGACGCG	GCC-AAGCCA	550
DSF536R1.DNA	501	-----	-----	-----	-----	-----	550
DSF53611.DNA	501	-----	-----	-----	-----	-----	550
DSF53612.DNA	501	GATCTGCCGC	GAGAAGGGCA	TCATCTTCCA	CGTGGACGCG	GCCCAGGCCA	550
		560	570	580	590	600	
DSF314.DNA	551	CCGGCAAGGT	CGAGATCGAC	CTGCAGAAGC	TGAAGGTGGA	CCTGATGTCTG	600
DSF536F1.DNA	551	ACGGCAAGGT	CGAGATC---	-----	-----	-----	600
DSF536R1.DNA	551	-----	-----	-----	-----	-----	600
DSF53611.DNA	551	-----	-----	-----	-----	-----	600
DSF53612.DNA	551	CCGGCAAGGT	CGAGATCGAC	CTGCAGAAGC	TGAAGGTGGA	CCTGATGTCTG	600
		610	620	630	640	650	
DSF314.DNA	601	TTCTCGGCGC	ACAAGACGTA	CGGCCCAAG	GGCATCGGCG	CGCTGTATGT	650
DSF536F1.DNA	601	-----	-----	-----	-----	-----	650
DSF536R1.DNA	601	-----	-----	-----	-----	-----	650
DSF53611.DNA	601	TTCTCGGCGC	ACAAGACGTA	CGGCCCAAG	GGCATCGGCG	CGCTGTATGT	650
DSF53612.DNA	601	TTCTCGGCGC	ACAAGACGTA	CGGCCCAAG	GGCATCGGCG	CGCTGTATGT	650
		660	670	680	690	700	
DSF314.DNA	651	GCGGCGCAAG	CCGCGCGTGC	GCATCGAGGC	GCAGATGCAC	GGCGGCGGCC	700
DSF536F1.DNA	651	-----	-----	-----	-----	-----	700
DSF536R1.DNA	651	--GGCGCAAG	CCGCGCGTGN	GNATCGAGGC	GCAGATGCAC	GGCGGCGGCC	700
DSF53611.DNA	651	GCGGCGCAAG	CCGCGCGTGC	GCATCGAGGC	GCAGATGCAC	GGCGGCGGCC	700
DSF53612.DNA	651	GCGGCGCAAG	CCGCGCGTGC	GCATCGAGGC	NTAGATGCAC	GGCGGCGGCC	700
		710	720	730	740	750	
DSF314.DNA	701	ACGAACGGGG	CTTCCGGTGC	GGCAGCTGG	CCACGCACCA	GATCGTCGGC	750
DSF536F1.DNA	701	-----	-----	-----	-----	-----	750
DSF536R1.DNA	701	ACGAACGGGG	CTTCCGGTGC	GGCAGCTGG	CCACGCACCA	GATCGTCGGC	750
DSF53611.DNA	701	ACGAACGGGG	CTTCCGGTGC	GGCAGCTGG	CCACGCACCA	GATCGTCGGC	750
DSF53612.DNA	701	ACGAACG---	-----	-----	-----	-----	750
		760	770	780	790	800	
DSF314.DNA	751	ATGGGCGAGG	CGTTCGCCT	GGCGCGCGAG	GAAATGGGCA	CCGAGAACGA	800
DSF536F1.DNA	751	-----	-----	-----	-----	-----	800
DSF536R1.DNA	751	ATGGGCGAGG	CGTTCGCCT	GGCGCGCGAG	GAAATGGGCA	CCGAGAACGA	800
DSF53611.DNA	751	ATGGGCGAGG	CGTTCGCCT	GGCGCGCGAG	GAAATGGGCA	CCGAGAACGA	800
DSF53612.DNA	751	-----	-----	-----	-----	-----	800
		810	820	830	840	850	
DSF314.DNA	801	GCGCGTGCGC	ATGCTGCGCG	ACCGCCTGCT	GGCCGGCCTG	ACGCAGATCG	850
DSF536F1.DNA	801	-----	-----	-----	-----	-----	850
DSF536R1.DNA	801	GCGCGTGCGC	ATGCTGCGCG	ACCGCCTGCT	GGCCGGCCTG	ACGCAGATCG	850
DSF53611.DNA	801	GCGCGTGCGC	ATGCTGCGCG	ACCGCCTGCT	GGCCGGCCTG	ACGCAGATCG	850
DSF53612.DNA	801	-----	-----	-----	-----	-----	850

Figure 7B



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		860	870	880	890	900	
DSF314.DNA	851	AGGAAGTGTA	TGTGAACGGC	AGCATGGAGC	ACCGCGTGCC	GCACAACCTG	900
DSF536F1.DNA	851	-----	-----	-----	-----	-----	900
DSF536R1.DNA	851	AGGAAGTGTA	TGTGAACGGC	AGCATGGAGC	ACCGCGTGCC	GCACAACCTG	900
DSF53611.DNA	851	AGGAAGTGTA	TGTGAACGGC	AGCATGGAGC	ACCGCGTGCC	GCACAACCTG	900
DSF53612.DNA	851	-----	-----	-----	-----	-----	900
		910	920	930	940	950	
DSF314.DNA	901	AACATCAGCT	TCAACTATGT	CGAGGGCGAG	TCTCTGATCA	TGGCGATCAA	950
DSF536F1.DNA	901	-----	-----	-----	-----	-----	950
DSF536R1.DNA	901	AACATCAGCT	TCAACTATGT	CGAGGGCGAG	TCTCTGATCA	TGGCGATCAA	950
DSF53611.DNA	901	AACATCAGCT	TCAACTATGT	CGAGGGCGAG	TCTCTGATCA	TGGCGATCAA	950
DSF53612.DNA	901	-----	-----	-----	-----	-----	950
		960	970	980	990	1000	
DSF314.DNA	951	GGAGCTGGCC	GTTTCCAGCG	GTTTCGGCCTG	CACGTGGGCC	AGCCTGGAGC	1000
DSF536F1.DNA	951	-----	-----	-----	-----	-----	1000
DSF536R1.DNA	951	GGAGCTGGCC	GTTTCCAGCG	GTTTCGGCCTG	CACGTGGGCC	AGCCTGGAGC	1000
DSF53611.DNA	951	GGAGCTGGCC	GTTTCCAGCG	GTTTCGGCCTG	CACGTGGGCC	-----	1000
DSF53612.DNA	951	-----	-----	-----	-----	-----	1000
		1010	1020	1030	1040	1050	
DSF314.DNA	1001	CGTCCTATGT	GCTGCGCGCG	CTGGGCCGCA	ACGACGAGCT	GGCGCACAGC	1050
DSF536F1.DNA	1001	-----	-----	-----	-----	-----	1050
DSF536R1.DNA	1001	CGTCCTATGT	GCTGCGCGCG	CTGGGCCGCA	ACGACGAGCT	GGCGCACAGC	1050
DSF53611.DNA	1001	-----	-----	-----	-----	-----	1050
DSF53612.DNA	1001	-----	-----	-----	-----	-----	1050
		1060	1070	1080	1090	1100	
DSF314.DNA	1051	TCCATCCGCT	TTACCCTGGG	CCGCTTCACG	ACCGAACAGG	AAATCGACTT	1100
DSF536F1.DNA	1051	-----	-----	-----	-----	-----	1100
DSF536R1.DNA	1051	TCCATCCGCT	TTACCCTGGG	CCGCTTCACG	ACCGAACAGG	AAATCGACTT	1100
DSF53611.DNA	1051	-----	-----	-----	-----	-----	1100
DSF53612.DNA	1051	-----	-----	-----	-----	-----	1100
		1110	1120	1130	1140	1150	
DSF314.DNA	1101	CACGATCGAA	CTGATCAAGA	GTCGTGTCGG	CAAGCTGCGC	GATATGTCGC	1150
DSF536F1.DNA	1101	-----	-----	-----	-----	-----	1150
DSF536R1.DNA	1101	CACGATCGAA	CTGATCAAGA	GTCGTGTCGG	CAAGCTGCGC	GATATGTCGC	1150
DSF53611.DNA	1101	-----	-----	-----	-----	-----	1150
DSF53612.DNA	1101	-----	-----	-----	-----	-----	1150
		1160	1170	1180	1190	1200	
DSF314.DNA	1151	CGTTGTGGGA	AATGGCCCAG	GAAGGCATTG	ATCTGAATTC	CGTGCACTGG	1200
DSF536F1.DNA	1151	-----	-----	-----	-----	-----	1200
DSF536R1.DNA	1151	CGTTGTGGGA	AATGGCCCAG	GAAGGCATTG	ATCTGAATTC	CGTGCACTGG	1200
DSF53611.DNA	1151	-----	-----	-----	-----	-----	1200
DSF53612.DNA	1151	-----	-----	-----	-----	-----	1200
		1210	1220	1230	1240	1250	
DSF314.DNA	1201	GCCGCGCACT	GA	-----	-----	-----	1250
DSF536F1.DNA	1201	-----	-----	-----	-----	-----	1250
DSF536R1.DNA	1201	GCCGCGCACT	GA	-----	-----	-----	1250
DSF53611.DNA	1201	-----	-----	-----	-----	-----	1250
DSF53612.DNA	1201	-----	-----	-----	-----	-----	1250

Figure 7C